

Pressure Sensor SCP07

For safety applications

Pressure Sensor for applications with safety requirements in safety controlled systems.

The SCP07 is a safety-related pressure transmitter and can be used in applications that require a Performance Level d according to EN ISO13849 or a SIL 2 according to IEC 61508.

The SCP07 supervises the signals of its measurement cell and convert the pressure in two inverted 4-20 mA output signals. The control unit can monitor the safety-related functionality and the electrical connectivity of the SCP07.



Contact Information:

EMEA Product Information Centre
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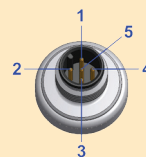
Product Features:

- For safety applications
- PLd
- SIL 2
- Two inverted 4-20 mA outputs
- Up to 600 bar
- G1/4 DIN 3852-11 (E)
- Compact design
- Long term stability
- Wide temperature range -40 to 85°C

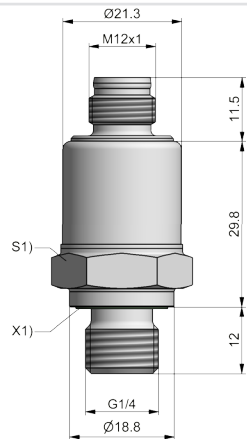


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Technical data

SCP07-		010	025	060	100	250	400	600
Pressure range Pn 0... (bar) relative		10	25	60	100	250	400	600
Overload Pressure P _{max} DIN EN 60770-1 (bar) relative		50	50	200	200	500	800	1600
Burst Pressure P _{burst} DIN EN 60770-1 (bar) relative		250	250	1000	1000	2500	4000	> 4000
General				Electrical Connection				
Response time		≤ 1 ms		Output signal		4...20 mA / 20...4 mA		
Load change		> 100 million		Supply voltage V ₊		9...32 VDC ripple @50HZ ≤10 %		
Material Housing		Stainless steel 1.4301		Load _{max}		(V ₊ -5.5 V) / 0.02 A [Ω]		
Weight		Approx. 50 g		Protection		Overvoltage		yes
Process Connection		G1/4, DIN 3852 T11 (E)				Short circuit		yes
Material		Stainless steel 1.4548				Reverse polarity		yes
Material diaphragm		Stainless steel 1.4548				Signal on GND/V ₊		yes
Wetted parts		FKM Stainless steel 1.4548		M12x1				
Seal		ED type : FKM						
Installation torque		Max. 35 Nm		Protection class		IP 67		
Ambient Conditions				IEC 60529 (mounted connector)				
Media temperature		-40 to 125°C		Material		PBT-GF30		
Operation / Ambient temperature		-40 to 85°C				Pin 1		V ₊
Storage temperaute		-40 to 100°C				Pin 2		20...4 mA
Vibration		IEC 60068-2-6 :20g				Pin 3		GND
Shock		IEC 60068-2-27 :500g				Pin 4		4...20 mA
						Pin 5		Do not connect!
Conformity								
CE		EN 61326-1, EN 61326-3-1						
E1		All vehicle types with +12/24 V and battery (-) at the chassis						
Accuracy Parameter								
Non-linearity +		≤ 0,5 %FS						
Hysteresis + Repeatability								
Long-term stability		≤ 0,2 %FS / year						
Overall Accuracy								
@ -40°C...-25°C		≤ 2,5 %FS						
@ -25...0°C		≤ 1,5 %FS						
@ 0...85°C		≤ 1 %FS						
Safety classification								
IEC 61508:2010		SIL 2						
Safety-related subsystem		Type B						
Hardware achitecture		1oo1						
HFT		0						
SFF (including control unit)		95 %						
PFH		8.4 *10E-9						
EN ISO 13849-1:2010		PL d						
Category		2						
DC (including control unit)		93,8 %						
CCF		70						
MTTF _D		> 100 years						
MTBF (SN29500)		420,7 years						

Order code		
Pressure sensor SCP07		SCP07-xxx-24-0
Pressure range		
0...10 bar.....		-010
0...25 bar.....		-025
0...60 bar.....		-060
0...100 bar.....		-100
0...250 bar.....		-250
0...400 bar.....		-400
0...600 bar.....		-600



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LEAF/4156/UK 04/2017

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